

NORSOK STANDARD

DESIGN PRINCIPLES **CODING SYSTEM**

Z-DP-002
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1. FOREWORD

This standard has been developed by the NORSOK standardisation work group for the widest possible national and international application.

For the purpose of assisting those using this document the following information is given:

The coding system in this standard is based on a functional breakdown of **systems** into **subsystems** and **units**. This is due to the following main objectives:

- Compliance with the functional system specific NORSOK standards.
- To relate all documentation to systems, subsystems and units to ensure traceability and use.
- To enable commissioning and operation activities on systems, subsystems and units without additional coding.
- To enable contractors and suppliers to number their deliveries and documentation with a minimum of centralised coordination.
- To minimize the requirements for documentation of identical items on different systems, subsystems or units.

All annexes are normative except annex I, Application Examples, which is informative.

2. SCOPE

This coding system has been developed for tag coding and technical document coding by breakdown of an installation into functions.

In addition identification of bulk components/components have been established with a possible future relation to a new article coding system.

3. NORMATIVE REFERENCES

ISO 3511-1 (NS 1438)	Process Measurement Control Functions and Instrumentation Symbolic Representation Part I: Basic Requirements
ISO 3511-2	Process Measurement Control Functions and Instrumentation Symbolic Representation Part II: Extension of Basic Requirements
ISO 3511-3	Process Measurement Control Functions and Instrumentation Symbolic Representation Part III: Detailed Symbols for Instrument Interconnection Diagrams

IEC 750	Item Designation in Electro Technology
NS 5820	Supplier's Documentation of Equipment (4.4, Acceptance Codes)

4. DEFINITIONS AND ABBREVIATIONS

4.1 Definitions

A	=	Alphabetic character
N	=	Numeric character
Z	=	Alphanumeric character

System	A platform consists of systems which performs process, utility and service functions etc.
Subsystem	The systems may be broken down into functional subsystems.
Sub-subsystems	The subsystems may be broken down into project specific sub-subsystems.
Unit	The subsystems/sub-subsystems may be broken down into project specific units.
Subunit	The unit may be broken down into project specific subunits.
Item	The unit/subunit may be broken down into project specific items. An item is the lowest level of functional identification.
Bulk component	Units or items <u>which does not require</u> an individual physical identity (tag no.). A bulk component shall be identified by manufacturer's name and model/type identification.
Component	Items <u>which does require</u> an individual physical identity. A component shall be identified by manufacturer's name, model/type identification and serial number. (Note that functional systems, subsystems and units <u>shall not be identified</u> as a component because it has a serial number, but because of additional requirements for identification/traceability (recertification, non-interchangeable spare parts etc.))
Part	Part is any part of a bulk component/component. Part shall be identified by manufacturer's model/type identification.
Article code	Unique operator specific numbers assigned by the individual operators to all physical parts that fulfill identical functional and interface requirements.

4.2 Abbreviations

ISO	International Standardisation Organisation
NS	"Norsk standard"
IEC	International Electrotechnical Commission
DFO	Documentation for Operation

5. CODING SYSTEM APPLICATION

The application of the coding system is described for systems, subsystems, units, items and documents in clauses 7, 8 and 9 below.

Coding for lower levels, like assembly, bulk component or part is not part of this standard (see also clause 10).

The specific coding details consists of the following elements:

- System and subsystem codes (Annex A)
- Type and function codes (Annex B)
- Pipeline and piping codes (Annex C)
- Discipline and administration codes (Annex D)
- Document type codes (Annex E)
- Area codes (Annex F)
- Revision, status and acceptance codes (Annex G)
- Originator and responsible party codes (Annex H)

6. PROJECT CODING

The project identification/number is standardised to a maximum of six alphanumeric characters.

The project number will be used as a reference in all tag and document coding. The project number shall be used as an attribute to the coding system (available in the data systems) and will therefore not be a visible part of a tag or document code.

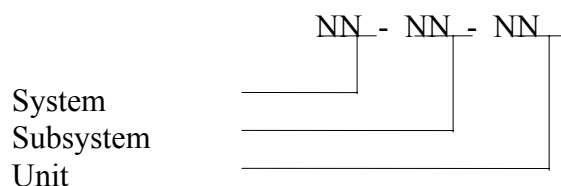
7. FUNCTION CODING ELEMENTS

7.1 General Format

Functional coding consists of system, subsystem, unit and item identification. It is usually grouped in system and item functions.

7.2 System Function

The system code consists of six numeric characters, broken down as follows:



Example of system code:

Cooling medium and
refrigeration sysem,
System 40:

40	00	00
-----------	-----------	-----------

For cooling medium
pumping,
Subsystem 30:

40	30	00
-----------	-----------	-----------

For pump unit,
Unit 10:

40	30	10
-----------	-----------	-----------

For systems that are not broken down, the various relevant characters shall be set to 0 (zero).

7.2.1 *System*

The systems are defined by the first and second numeric character of the six-character functional code.

Reference is made to Annex A, System and Subsystem Coding.

Interfaces to other systems shall be set at items serving isolation and separation purposes (e.g. valves, junction boxes, distribution boards, termination racks etc.).

7.2.2 *Subsystem*

The subsystems are defined by the third and fourth numeric character of the six-character functional code.

Reference is made to Annex A, System and Subsystem Coding.

The interfaces between subsystems shall be defined as for systems.

7.2.3 *Sub-subsystem*

The fourth numeric character may be used for additional breakdown of subsystems into sub-subsystems.

The sub-subsystems shall be defined by the individual project.

The differentiation of the fourth numeric character may be required for mechanical completion, precommissioning, commissioning and operation activities.

Example of system, subsystem and sub-subsystem code:

Cooling medium and
refrigeration system,
System 40:

40	00	00
-----------	-----------	-----------

For cooling medium
pumping,
Subsystem 30:

40	30	00
-----------	-----------	-----------

For project specific
sub-system 31:

40	31	00
-----------	-----------	-----------

7.2.4 *Unit*

The units are defined by the fifth and sixth numeric character of the six-character functional coding.

The units shall be defined by the individual project.

7.2.5 *Subunit*

The sixth numeric character may be used for additional breakdown of units into subunits.

The unit code shall define main units in steps of ten as 10, 20, 30, 40 etc. Subunits may be identified as 11, 12, 13 etc. within unit 10 etc.

Example of unit and subunit code:

For pump unit in
subsystem,
Unit 10:

40	30	10
-----------	-----------	-----------

Pump.
Subunit 11:

40	30	11
-----------	-----------	-----------

Pump,
Subunit 12:

40	30	12
-----------	-----------	-----------

Pump,
Subunit 13:

40	30	13
-----------	-----------	-----------

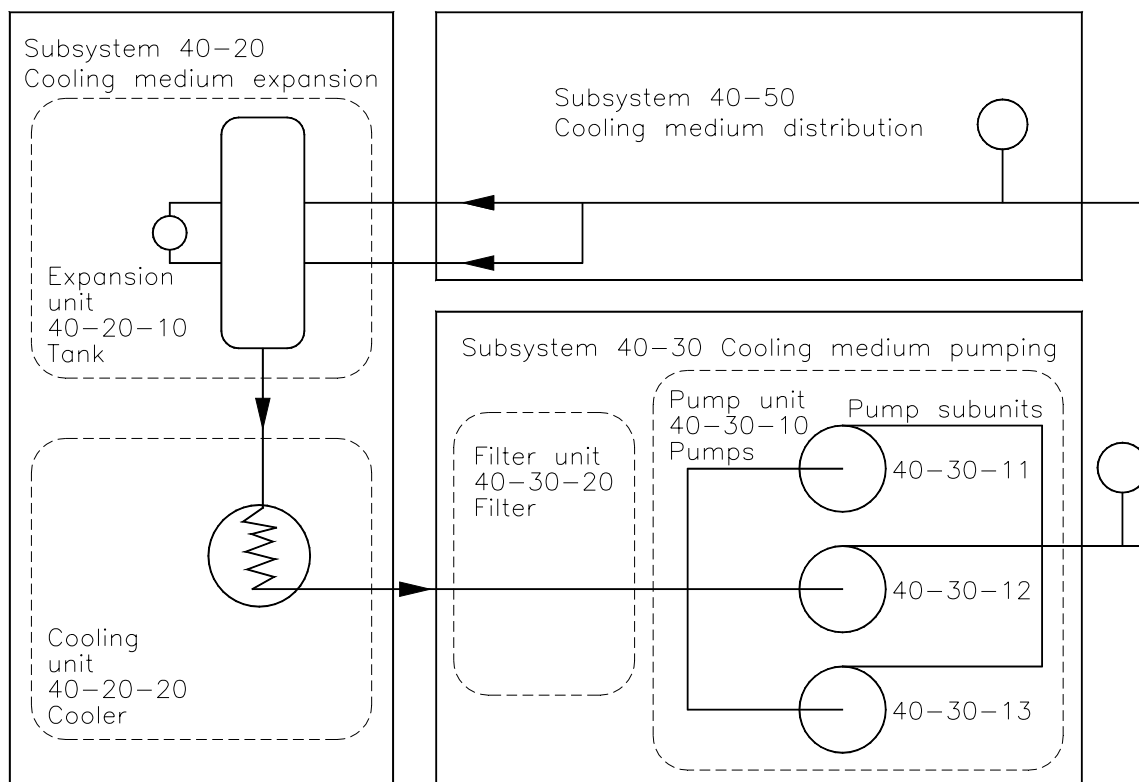
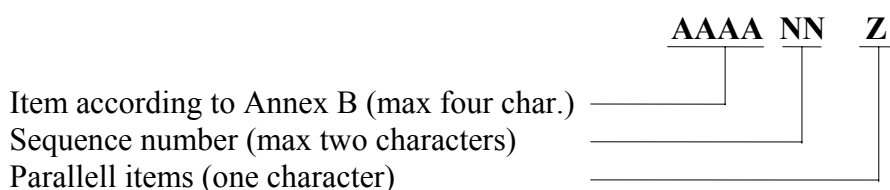


Fig. 1 Example of function coding for some subsystems within system 40, Cooling medium and refrigeration system.

7.3 Item function

The item function code consists of maximum seven characters, broken down as follows:



Examples:

Temperature switch	TSHH01	(sequence number 01)
	TSHH01A	(parallell item A)
Junction box	EJ01	(sequence number)

Item codes are unique within a system but common to all identical items in various systems.

Examples:

Valve, pump, antenna, temperature transmitter, pressure switch, electrical motor, junction box.

8. TAG CODING

8.1 General format

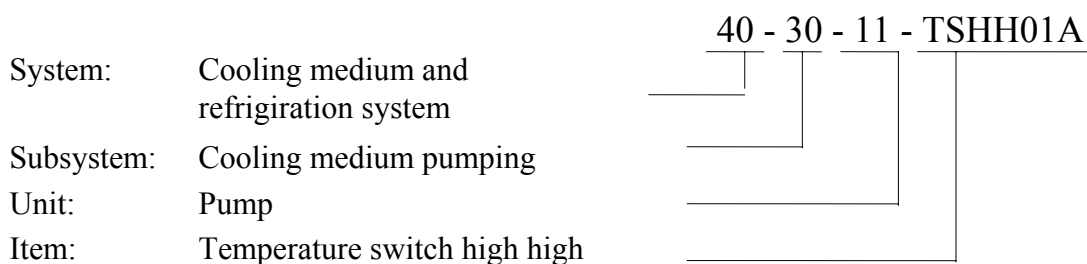
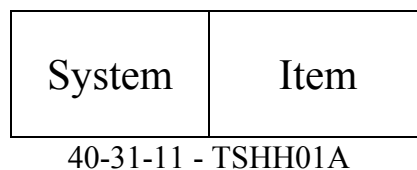
The actual tag coding consists of the following elements (described in clause 7):

- System function coding.
- Item function coding.

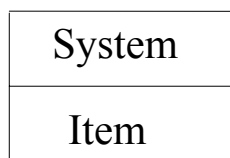
Tagging means to equip an item function with a label that gives it a unique identification. A tag is also allocated to a location.

Note: Tagging shall identify the lowest item function.

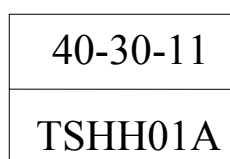
The tag code consists of:



Tag label :



Tag label example :



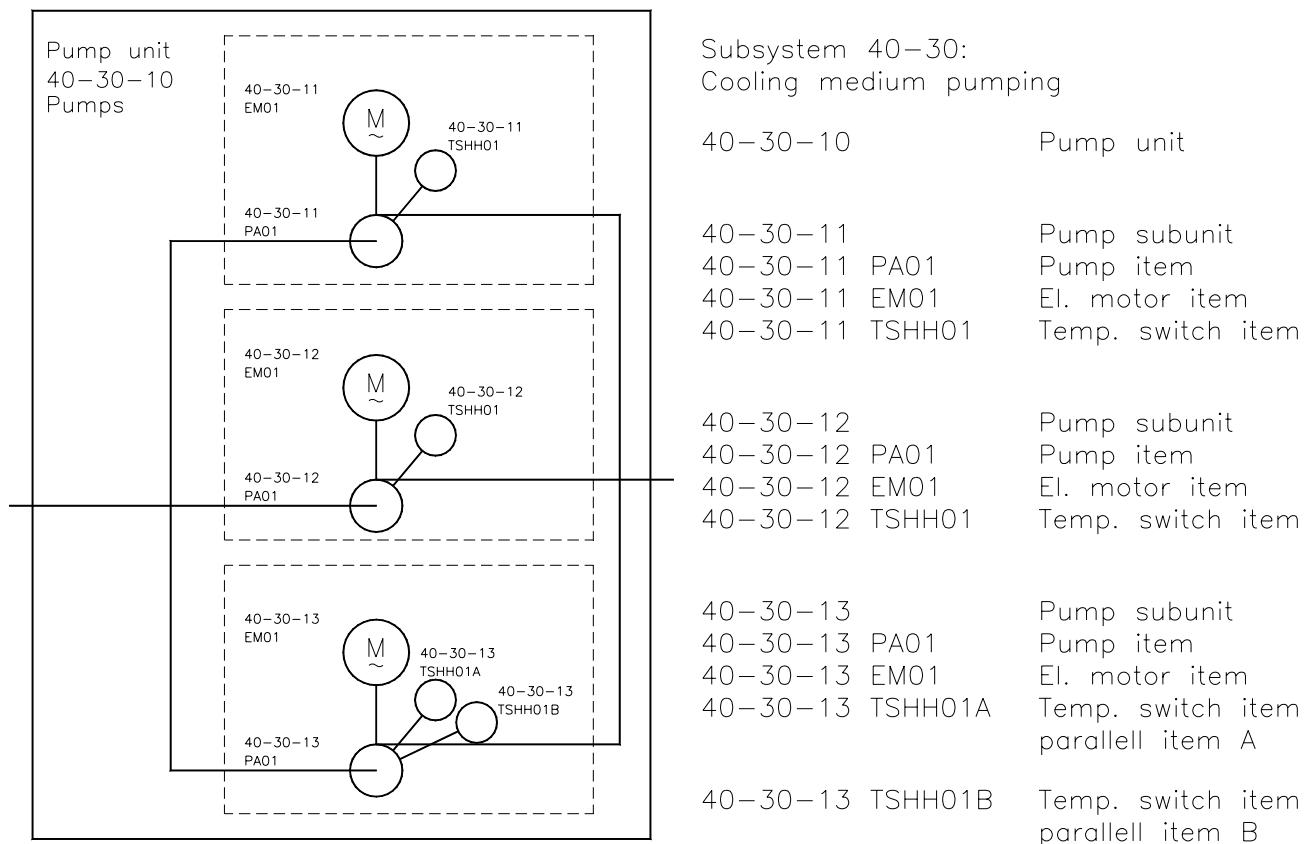


Fig. 2 Example of tag coding showing parallel units and items

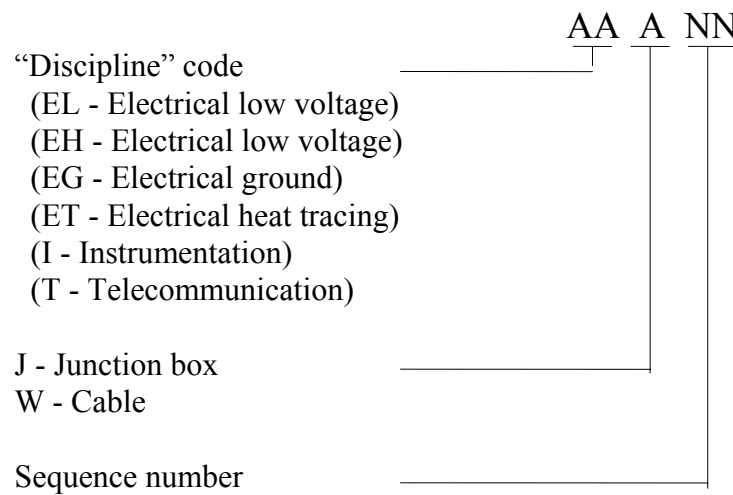
8.2 Piping

Piping shall be labelled according to the system and item function coding in clause 8.1. Item identification shall be according to Annex C, Pipeline and Piping Codes.

8.3 Junction box and cable numbering

Junction box and cable coding consists of system and item function coding as defined in clause 8.1.

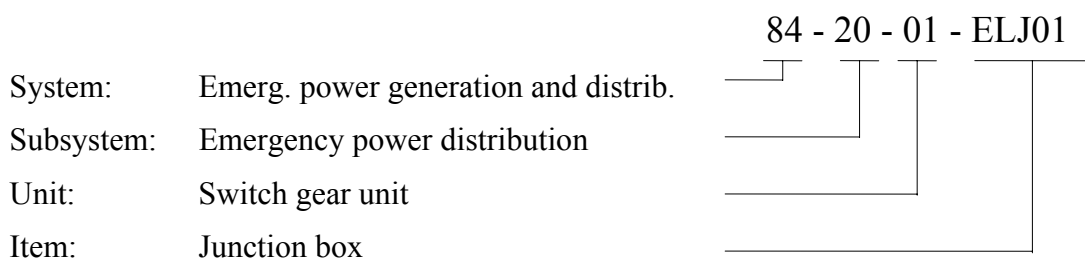
The item code consists of:



For certain junction boxes with multiple system cabling, the junction boxes shall be numbered with system 87, as detailed in Annex A, System and Subsystem Codes.

Examples:

Junction box in system 84-20:

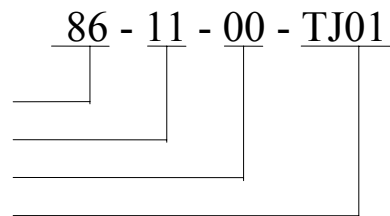


Tag label example:

84 -20 -01
ELJ01

Junction box in system 86-11:

System: Telecommunication
Subsystem: Public address and alarm
Unit: Possible subsystem
Item: Junction box



Tag label example:

86 -11 -00
TJ01

9. DOCUMENT CODING

9.1 General Format

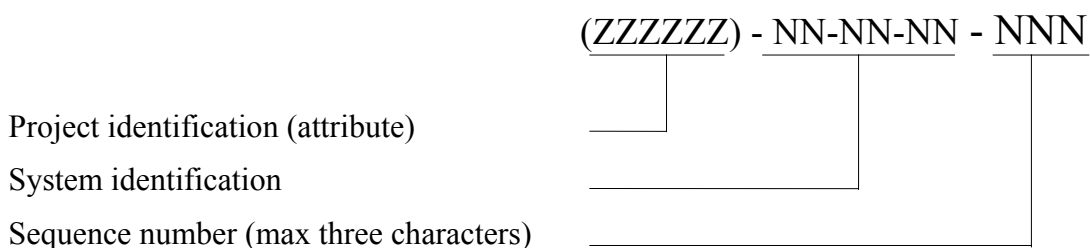
All documents produced shall be traceable by the project document code.

Project specific documentation from manufacturer/supplier shall be identified according to this standard.

9.2 Document Number

The identification structure is:

Project	Function	Sequence number
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The sequence number relates to the lowest level of identification. Number allocation shall be done by the system/unit designer.

Documentation of manufacturer's standard units and standard bulk components/components shall be identified according to manufacturer's normal identification system. In addition necessary project identification shall be given as required to enable registration and tracing in the project.

This will provide the required connection between documents to:

- System/subsystem/units/items (tags).
- Bulk component/component identification.
- Manufacturer's normal identification system.

Note: Documents not related to a specific system shall be identified as:
ZZZZZZ 00-00-00 NNN.

Piping GA drawings shall be identified as:
ZZZZZZ 90-10-00 NNN.

9.3 Mandatory attributes

Mandatory attributes to documents shall be used to enable the necessary tracing without having long and complex document numbers.

Acceptance Code (Annex G)
Acceptance Status Code (Annex G)
Area Code (Annex F)
Discipline (Annex D)
Document Title/Subject
Document Type (Annex E)
Originator Code (Annex H)
Responsible Party (Annex H)
Revision Code (Annex G)
Revision Date

Sheet number shall be used as required.

10. BULK COMPONENT/COMPONENT IDENTIFICATION

The third element of identification is the bulk component/component identification.

The part element is physical equipment identified by manufacturer's name and model/type. A serial number may be identified if additional identification/traceability is required.

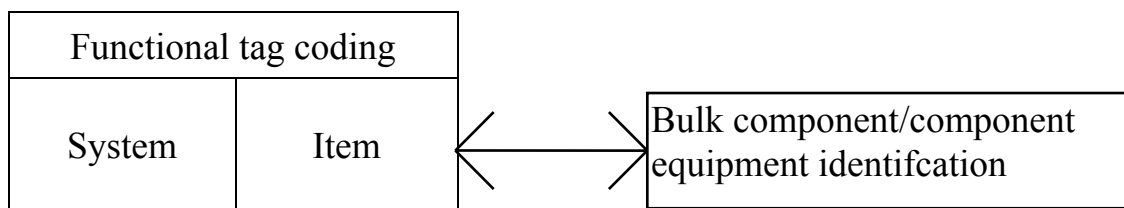


Fig. 3 Relation between functional tag (system/subsystem/unit/item) coding and bulk component/component equipment identification.

The bulk component/component identification should be related to an article coding system for simple identification of items to simplify spare part administration and documentation.

Function Coding		Bulk component	Manufacturer Mod./Type/Part	Real Manufacturer	Article Code / Company Code
Tag	System				
40-11-24	PA01C		6" / 10" (34P) FIK 9 STG	Matter & Platt	31 69 01 467 1
		Part 1	111261P-9	Matter & Platt	31 69 94 010 2
		"	"		
		"	"		
		Part N	A29443P-1	Matter & Platt	31 69 94 122 2

Fig. 4 Relation between functional tag coding and physical equipment identification.

Note that the article code system is not part of this coding system standard. An article code system should be administrated by the industry.

11. INFORMATIVE REFERENCES

This coding system structure and elements are based on:

AIR Transport Association of America (ATA), ATA-100
International Atomic Energy Agency Coding System

Hydro, Coding manual
Saga, Engineering Numbering System, ENS ASG-004
Statoil, Statoil Engineering Numbering System, SENS A-SG-014

ANNEX A
SYSTEM AND SUBSYSTEM CODES
(NORMATIVE)

SYSTEM CODES

The following main grouping of platform systems is used.

<u>System</u>	<u>System Main Groups</u>
01 - 09	Reserved for systems that are specific to a particular plant
10 - 19	Drilling and well related systems for oil and gas production (Well Related systems for oil and gas Production)
20 - 39	Process Systems that comprise the systems directly involved in the production of the plant
40 - 49	Process Support and Feed/Product Storage that comprise all systems which have a mass or heat interaction with the process system
50 - 69	Utility Systems that comprise all systems necessary for the plant to operate, but are not part of the actual production
70 - 79	Safety and Facility Systems
80 - 89	Electrical - Telecommunication - Instrumentation Systems
90 - 99	Structural, Civil Systems

10 DRILLING SYSTEMS

10 - 10	Derrick/mast and hoisting
10 - 20	Rotary equipment
10 - 30	Pipehandling
10 - 40	Drillfloor and substructure with equipment
10 - 50	Coil tubing
10 - 60	Snubbing
10 - 70	Well testing

11 DRILLING PROCESS SYSTEMS

11 - 10	Bulk
11 - 20	Mud mixing and storage
11 - 30	High pressure mud
11 - 40	Mud treatment
11 - 50	Cementing
11 - 60	Cutting disposal
11 - 70	Mud base fluid
11 - 80	Completion fluid

12 DRILLING WELLCONTROL SYSTEMS

12 - 10	Kill and choke manifold
12 - 20	BOP, diverter and drilling riser
12 - 30	Kill subsystem
12 - 40	Well control subsystem
12 - 50	Well logging subsystem, rental equipment

13 RISER AND WELL SYSTEM

13 - 10	Well subsystem
13 - 20	Production / injection riser
13 - 30	Oil export riser
13 - 40	Gas export riser
13 - 50	Downhole equipment

14 RISER OPERATIONS SYSTEMS

14 - 10	Riser guidance subsystem
14 - 20	Marine growth cleaning subsystem
14 - 30	Riser position reference subsystem
14 - 40	Riser inspection subsystem
14 - 50	ROV subsystem

15 WELL RELATED PRODUCTION SYSTEMS TOPSIDE

15 - 10	Wellbay production subsystem
15 - 20	Well testing subsystem
15 - 30	Kill subsystem
15 - 40	Subsea manifold
15 - 50	Subsea pigging

16 GAS AND WATER INJECTION WELL SYSTEM TOPSIDE

16 - 10	Water injection to subsea templates
16 - 20	Water injection to platform wells
16 - 30	Water injection to pigging subsystems
16 - 40	Gas injection to platform wells

17 SUBSEA PRODUCTION SYSTEM - INSTALLATION, MAINTENANCE AND WORKOVER SYSTEMS

17 - 10	Drilling equipment
17 - 20	Handling equipment
17 - 30	Completion riser subsystem
17 - 40	Workover control subsystem
17 - 50	Pull-in and connection subsystem
17 - 60	ROMV subsystem
17 - 70	Testing sSystem
17 - 80	Running tool subsystem
17 - 90	Dummy wellbay subsystem
17 - 95	Leveling system-templates

18 NOT DEFINED

19 SUBSEA PRODUCTION SYSTEM

19 - 10	Wellhead equipment
19 - 15	Manifold equipment
19 - 20	Downhole equipment
19 - 25	Flowlines
19 - 30	Flexible risers and jumpers
19 - 35	Flexible jumpers
19 - 40	Subsea control subsystem and umbilicals
19 - 50	Subsea tree subsystem
19 - 60	TFL system

- 19 - 70 Wellbay subsystem
- 19 - 80 Tubing hanger subsystem

20 SEPARATION AND STABILIZATION

- 20 - 10 Production manifold/headers
- 20 - 20 Heaters and separators

21 CRUDE HANDLING

- 21 - 10 Crude pumping (storage/pipeline/loading)
- 21 - 20 Crude storage
- 21 - 30 Crude metering
- 21 - 40 Crude offshore loading
 - 21 - 41 FPU/FPSO offloading
 - 21 - 42 Articulated loading column
 - 21 - 43 SPAR busy
 - 21 - 44 Single point mooring buoy
 - 21 - 45 Anchor leg mooring
 - 21 - 46 UKOLS offloading
 - 21 - 47 STL (Submerged turret loading)

22 NOT DEFINED

23 GAS RECOMPRESSION, COOLING AND SCRUBBING

- 23 - 10 Gas cooling and scrubbing
- 23 - 20 Gas recompression

24 GAS TREATMENT

- 24 - 10 Gas cooling and scrubbing
- 24 - 20 Gas dehydration
- 24 - 30 Regeneration

25 NOT DEFINED

26 GAS REINJECTION TO RESERVOIR

- 26 - 10 Reinjection gas cooling and scrubbing
- 26 - 20 Reinjection gas compression
- 26 - 30 Reinjection manifold

27 GAS PIPELINE COMPRESSION, METERING AND TRANSFER

- 27 - 10 Gas cooling and scrubbing
- 27 - 20 Gas pipeline compression
- 27 - 30 Gas metering

28 GAS SWEETENING

- 28 - 10 H₂S removal
- 28 - 20 CO₂ removal

29 NOT DEFINED

30 OIL PIPELINE, EXPORT STABILIZED OIL

- 30 - 10 Pipeline
- 30 - 20 Pig launching

31 CONDENSATE EXPORT PIPELINE

- 31 - 10 Pipeline
- 31 - 20 Pig Launching

32 GAS EXPORT PIPELINE

- 32 - 10 Pipeline
- 32 - 20 Pig launching

33 NOT DEFINED

34 WATER PIPELINE HIGH PRESSURE

- 34 - 10 Risers
- 34 - 20 Pipeline
- 34 - 30 Pig launching

35 METHANOL PIPELINE

- 35 - 10 Risers
- 35 - 20 Pipeline
- 35 - 30 Pig launching

36 PIPELINE WELLSTREAM, MULTIPHASE

- 36 - 10 Risers
- 36 - 20 Pipeline
- 36 - 30 Pig launching

37 - 39 NOT DEFINED

40 COOLING MEDIUM AND REFRIGERATION SYSTEM

- 40 - 10 Cooling medium
- 40 - 20 Cooling medium expansion
- 40 - 30 Cooling medium pumping
- 40 - 40 Cooling medium cooling
- 40 - 50 Cooling medium distribution

- 40 - 70 Refrigeration

41 HEATING MEDIUM SYSTEM

- 41 - 10 Heating medium
- 41 - 20 Heating medium expansion
- 41 - 30 Heating medium pumping
- 41 - 40 Heating medium heating
- 41 - 50 Heating medium distribution

42 CHEMICAL INJECTION SYSTEM

42 - 10	Methanol injection
42 - 11	Methanol storage
42 - 12	Methanol pumping
42 - 13	Methanol distribution topside
42 - 14	Methanol distribution subsea
42 - 20	Chlorination
42 - 21	Hypochlorite production
42 - 22	Hypochlorite storage
42 - 23	Hypochlorite distribution
42 - 30	Injection chemicals
42 - 31	Antifoam
42 - 32	Biocid
42 - 33	Oxygen scavenger
42 - 34	Corrosion inhibitor
42 - 35	De-emulsifier
42 - 36	Scale inhibitor
42 - 37	Polyelectrolyte
42 - 40	Glycol regeneration
42 - 41	Glycol filtration
42 - 42	Glycol treatment
42 - 43	Glycol distribution

43 FLARE, VENT AND BLOW-DOWN SYSTEMS

43 - 10	High pressure flaring
43 - 11	HP flare header/knock-out drum
43 - 12	HP flare and metering
43 - 20	Low pressure flaring
43 - 21	LP flare header/knock-out drum
43 - 22	LP flare and metering
43 - 30	Maintenance flaring
43 - 31	Maintenance header/knock-out drum
43 - 32	Maintenance flare and metering
43 - 40	Atmospheric venting
43 - 50	Flame generation and pilot flaring

44 OILY WATER TREATMENT

44 - 10	Produced water treatment
44 - 11	Produced water hydrocyclones
44 - 12	Produced water degassing drum and reclaimed sump
44 - 20	Ballast water treatment
44 - 30	Sludge treatment
44 - 40	Bilge subsystem

45 FUEL GAS

45 - 10	HP fuel gas
45 - 11	HP fuel gas heating/scrubbing
45 - 12	HP fuel gas distribution

- 45 - 20 LP fuel gas
- 45 - 21 LP fuel gas heating/scrubbing
- 45 - 22 LP fuel gas distribution

46 - 49 NOT DEFINED

50 SEA WATER SYSTEMS (LOW TO MEDIUM PRESSURE)

- 50 - 10 Sea water lift
- 50 - 20 Sea water filtration
- 50 - 30 Sea water lift pumping
- 50 - 50 Medium pressure seawater
- 50 - 60 Medium pressure seawater pumping
- 50 - 70 Medium pressure seawater distribution

51 SEA WATER SYSTEM (HIGH PRESSURE)

- 51 - 10 Water injection
- 51 - 20 Water injection filtering/deaeration
- 51 - 30 Water injection pumping
- 51 - 40 Water injection manifold
- 51 - 50 Jet water system
- 51 - 60 Jet water header
- 51 - 70 Jet water distribution

52 BALLAST WATER SYSTEM

- 52 - 10 Ballast water inlet/filtering
- 52 - 20 Ballast water control tank
- 52 - 30 Ballast water pumping
- 52 - 40 Ballast water distribution
- 52 - 60 Temporary ballast water

53 FRESH WATER SYSTEM

- 53 - 10 Water desalination (fresh water makers)
- 53 - 20 Desalinated water storage
- 53 - 30 Desalinated water distribution
- 53 - 40 Potable water sterilization
- 53 - 50 Potable water storage
- 53 - 60 Potable water distribution

54 NOT DEFINED

55 STEAM, CONDENSATE AND HOT WATER SYSTEM

- 55 - 10 Steam generation and distribution
- 55 - 20 Hot water generation and distribution

56 OPEN DRAIN SYSTEM

- 56 - 10 Non-hazardous open drain
- 56 - 11 Non-hazardous open drain collection
- 56 - 12 Non-hazardous open drain separator/pumps
- 56 - 20 Hazardous open drain
- 56 - 21 Hazardous open drain collection
- 56 - 22 Hazardous open drain separator/pump
- 56 - 30 Shale disposal
- 56 - 40 Drain water treatment

57 CLOSED DRAIN SYSTEM

- 57 - 10 Closed drain collection
- 57 - 20 Closed drain separator/pumps

58 - 59 NOT DEFINED

60 DRY AND WET BULK LOADING

61 JET FUEL SYSTEM

- 61 - 10 Jet fuel storage/pumping
- 61 - 20 Jet fuel filtering/dispensing

62 DIESEL OIL SYSTEM

- 62 - 10 Untreated diesel oil storage
- 62 - 20 Untreated diesel oil distribution
- 62 - 30 Treatment untreated diesel oil
- 62 - 40 Treated diesel oil storage
- 62 - 50 Treated diesel oil distribution

63 COMPRESSED AIR SYSTEM

63 - 10	Instrument air compression
63 - 20	Instrument air drying/receiving
63 - 30	Instrument air distribution
63 - 50	Plant air subsystem
63 - 60	Black start subsystem
63 - 61	Black start compression
63 - 62	Black start air receiver
63 - 63	Topping-up compression
63 - 70	Bleed air subsystem

64 INERT PURGE SYSTEM

64 - 10	Inert gas generation and distribution
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65 HYDRAULIC POWER SYSTEMS

65 - 10	Hydraulic power pack and distribution top-side
65 - 20	Hydraulic power pack and distribution subsea
65 - 30	Hydraulic power pack and distribution wellhead

66 SEWAGE TREATMENT

66 - 10	Sewage collection and treatment package
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67 - 69 NOT DEFINED

70 FIRE AND GAS DETECTION

71 FIRE WATER SYSTEM

71 - 10	Fire water pumping
71 - 20	Fire water distribution
71 - 50	Deluge
71 - 60	Sprinkler
71 - 70	Water spray/AFFF
71 - 80	Monitor
71 - 90	Hose reel

72 MISCELLANEOUS FIRE FIGHTING SYSTEMS

72 - 10	AFFF storage and pumping
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72 - 20	AFFF distribution
72 - 50	CO ₂ system
72 - 60	Fire extinguishers
72 - 70	Smoke diving equipment
72 - 80	Dry chemicals

73 MATERIAL HANDLING

73 - 10	Pedestal cranes
73 - 20	Overhead cranes
73 - 30	Trolleys/hoist
73 - 40	Monorails and lugs
73 - 50	Elevators
73 - 60	Winches

74 ACCOMMODATION FACILITIES

74 - 10	Sleeping facilities
74 - 20	Food service system
74 - 30	Recreation
74 - 40	Administration and control
74 - 50	Helideck

75 PASSIVE FIRE PROTECTION SYSTEMS

75 - 10	Structural fire protection
75 - 50	Fire walls

76 ESCAPE AND PERSONNEL SAFETY

76 - 10	Life boats
76 - 20	Life boats davits
76 - 30	Life rafts/MOB
76 - 40	Escape provisions (survival suits, ropes etc.)
76 - 50	Personal protection (first aid, eye washers, etc.)
76 - 60	Escape chute

77 HEATING AND VENTILATION

- 77 - 10 HVAC living quarter
- 77 - 20 HVAC other areas
- 77 - 21 Air handling
- 77 - 22 Damper
- 77 - 50 Hot and cold water makers
- 77 - 60 Hot and cold water distribution

78 WORKSHOP AND STORAGE

- 78 - 10 Workshop facilities
- 78 - 20 Storage facilities

79 EMERGENCY SHUTDOWN AND BLOWDOWN SYSTEM

- 79 - 10 Emergency shutdown
- 79 - 20 Blowdown

80 MAIN POWER GENERATION AND DISTRIBUTION HIGH VOLTAGE (> 6.6 kV)

- 80 - 10 Main power generation
- 80 - 20 Main power distribution

81 MAIN POWER GENERATION AND DISTRIBUTION HIGH VOLTAGE (1.0 kV - 6.6 kV)

- 81 - 10 Main power generation
- 81 - 20 Main power distribution

82 MAIN POWER GENERATION AND DISTRIBUTION LOW VOLTAGE (< 1.0 kV)

- 82 - 10 Main power generation
- 82 - 20 Main power distribution

83 ESSENTIAL POWER GENERATION AND DISTRIBUTION

- 83 - 10 Essential power generation
- 83 - 20 Essential power distribution

84 EMERGENCY POWER GENERATION AND DISTRIBUTION

- 84 - 10 Emergency power generation
- 84 - 20 Emergency power distribution

85 BATTERY AND NO-BREAK SYSTEM

- 85 - 10 24V DC power supply
- 85 - 20 48V DC power supply
- 85 - 40 110V DC power supply
- 85 - 50 230V AC UPS

86 TELECOMMUNICATION

- 86 - 10 Sound subsystems
- 86 - 11 Public address and alarm
- 86 - 12 Drillers intercom
- 86 - 20 Network subsystems
- 86 - 21 PABX
- 86 - 22 Multiplexer
- 86 - 23 Office data network (servers, bridges/routers etc.)
- 86 - 24 Office data and telephone cabling network
- 86 - 25 Platform intercom
- 86 - 30 External carriers
- 86 - 31 Radio links
- 86 - 35 Satellite links
- 86 - 37 Private radio network
- 86 - 38 Cable links
- 86 - 39 Fibre optic links
- 86 - 40 Radio subsystems
- 86 - 41 Mandatory radio (GMDSS) and general radio.
(GMDSS, Global Maritime Distress and Safety)
- 86 - 42 VHF radio and paging
- 86 - 43 Audio and video entertainment
- 86 - 50 Surveillance subsystems
- 86 - 51 Closed circuit television (CCTV)
- 86 - 52 Meteorological observation
- 86 - 53 Marine radar
- 86 - 54 Aviation radar
- 86 - 55 Communication recorder

86 - 60	Telemetry
86 - 61	Shuttle tanker loading telemetry
86 - 62	Work-over telemetry
86 - 63	Pipeline telemetry
86 - 70	Navigational aids
86 - 71	Distance measuring equipment (DMF)
86 - 72	ATIS/AFTN for aviation
86 - 73	Positioning
86 - 80	Common subsystems
86 - 81	MDF (main distribution frame)
86 - 82	Telecom power supply
86 - 83	Real time clock
86 - 84	TSS, Telecom Surveillance subsystem incl. TMS, Traffic Management subsystem
86 - 90	Temporary subsystems (subsystems used during installation, hook-up, commissioning and start-up)

87 INSTRUMENTATION SYSTEMS

87 - 00	Multipurpose systems (cables and junction boxes)
87 - 10	Process control systems
87 - 20	Process shutdown systems
87 - 30	Emergency shutdown systems
87 - 40	Fire and gas systems
87 - 50	Wellhead control system (incl. hydraulic power unit)
87 - 60	Environmental condition monitoring systems
87 - 70	Power distribution system
87 - 80	General CCR equipment

88 EARTHING AND LIGHTNING

88 - 10	Earthing and lightning protection
88 - 20	Electrical lightning protection

89 NOT DEFINED

90 STRUCTURAL/CIVIL SYSTEMS

90 - 10	Piping general arrangement
90 - 20	Piping layouts
90 - 30	Piping plot plans

91 DECK STRUCTURES

91 - 10	Primary structures
91 - 20	Secondary structures
91 - 30	Outfitting/non-structural
91 - 40	Protection systems (bumpers etc.)
91 - 90	Temporary structures

92 SUPPORT STRUCTURES/HULLS

92 - 10	Primary structures
92 - 20	Secondary structures
92 - 30	Outfitting/non-structural
92 - 40	Prestressing reinforcements
92 - 50	Ordinary reinforcements
92 - 60	Protection systems (boat bumpers etc.)
92 - 70	Jacking subsystems (jack-ups)
92 - 90	Temporary structures

93 LOADING SYSTEMS

93 - 10	Primary structures
93 - 20	Secondary structures
93 - 30	Outfitting/non-structural
93 - 90	Temporary structures

94 POSITIONING SYSTEMS

94 - 10	Piles
94 - 20	Anchors
94 - 30	Anchor lines
94 - 40	Tethers
94 - 50	Tether anchors
94 - 60	Dynamic positioning
94 - 70	Propulsion
94 - 71	Power supply
94 - 72	Thruster

95 ONSHORE/CIVIL SYSTEMS

95 - 10	Primary structures
95 - 20	Secondary structures
95 - 30	Outfitting/non-structural
95 - 40	Roads
95 - 50	Bridges
95 - 60	Pads

95 - 70	Quays
95 - 80	Tunnels/caverns
95 - 90	Temporary structures

96 SUBSEA PRODUCTION SYSTEMS

96 - 10	Primary structure
96 - 20	Secondary structure
96 - 90	Temporary structure

97 WELL TEMPLATES

97 - 10	Primary structure
97 - 20	Secondary structure
97 - 90	Temporary structure

98 CORROSION PROTECTION SYSTEMS

98 - 10	Painting
98 - 20	Cathodic protection
98 - 30	Corrosion monitoring

99 MISCELLANEOUS SYSTEMS

99 - 10	Structural monitoring
99 - 20	Lifting (spreader bars etc.)
99 - 30	Installation aids
99 - 40	Transportation aids
99 - 50	Grillage/seafastening

ANNEX B
ITEM FUNCTION CODES
(NORMATIVE)

ITEM FUNCTION CODES

International standards are the primary identification principles to be used.

As supplement for *not defined type and function codes in international standards* as referenced pr. type and function in this appendix, the following codes shall be applied:

ARCHITECTURAL

AA Kitchen Equipment
AB Laundry Equipment
AC Sanitary Equipment
AX
AD Doors

DRILLING

BD BOP/Accumulator Equipment
BG Drawwork/Rotary table
BH Riser
BI Choke manifold
BJ Top drive
BM Skid-Jack
BN Diverter
BS Drilling manifold
BT Through flowline equipment
BX Other drilling equipment

MISC. MECHANICAL

CA Filter/Strainer
CB Air driven motor/Starter
CC Centrifuge
CD Conclition engine
CE Cyclone
CF Mechanical separator/Shaker
CG Gear Box
CH Hydraulic cylinder
CJ Mixers/Agitator/Blender
CN Solid waste disposal unit
CP Pig
CQ Eductor and ejector
CR Trash rack/Collector
CT Gas turbine/Expander
CU Steam turbine
CV Hydraulic motor
CX Other mechanical equipment
CY Spring support

COMMISSION PACKAGE

(codes to be allocated?)

ELECTRICAL EQUIPMENT

Electrical equipment shall be identified according to IEC 750. Additional codes are:

- EA Distribution board/switchgear for <400V, 400V<1kV and >1kV,
Control equipment/interface panel <230V
- EC Capacitors
- EE Lighting fixtures, other electrical equipment
- EG Battery/battery charger, generator
- EI Navigation aid
- EJ Electrical junction boxes
- EM Electric motor
- EQ Circuit breaker/disconnector (isolator)
- ER Resistor
- ET Transformer
- EU Rectifier and inverter, frequency converter
- EW Electrical cables, earthing bar, bus bar/bus duct
- EX Socket outlets, terminals, plugs

HEATER, FURNACE AND BOILER

- FA Oil fired boiler including stack and ducting
- FB Electrode boiler including stack and ducting
- FC Warm water maker
- FD Flare
- FE Electric heating element
- FM Mud burner
- FX Other heater, furnace, boiler

HEATING, VENTILATION AND AIR CONDITIONING

- GA Air handling unit
- GB Fan coil unit
- GD Centrifugal fan
- GE Axial fan/Mixed flow fan
- GF Air filters
- GG Roof hood
- GH Coding Coil/Heating Coil
- GK Humidifier
- GL Sound attenuator
- GM Fire damper
- GN Shut off damper
- GO Pressure control damper

GP	Coalescers
GQ	Weather louver
GR	Balancing damper
GV	Supply grille/Diffuser
GW	Extract grille
GX	Other HVAC equipment
GZ	Inlet guide vanes/Flow measuring device/Sampling point

HEAT TRANSFER

HA	Shell and tube heat exchanger
HB	Plate heat exchanger
HC	Radiator
HE	Miscellaneous cooler and condenser
HW	Waste heat recovery unit
HX	Other heat transfer equipment

INSTRUMENT (not for field tagged instrument)

IA	Air distribution header
IC	Controller/computer cabinet
ID	Desk/console
IE	Electrical distribution/power supply cabinet
IF	Field cabinet
IH	Hydraulic power unit
IJ	Instrument junction boxes
IK	Field termination cabinet/cross connection cabinet
IL	Logger/printer/copies
IM	Matrix-/mimic panel
IO	Operator station, workstation, PC, VDU etc.
IP	
IR	Misc. instruments
IS	
IT	
IV	Valve control assembly
IW	Instrument cables

FIRE AND GAS (field equipment)

AB	Gas detector
BF	Fire detector - fire
BS	Fire detector - smoke
BH	Fire detector - heat

COMPRESSOR AND BLOWER

KA	Centrifugal compressor
KB	Reciprocating compressor
KC	Screw/Rotary compressor
KE	Fan
KF	Blower
KH	Axial compressor
KJ	Diaphragm compressor
KX	Other compressor/Blower

MATERIAL HANDLING

MA	Pedestal Crane/Jib crane
MB	Gantry crane
MC	Overhead traveling crane
MD	Electrical/Air driven hoist
ME	Manual driven hoist
MF	Lift
MG	Escalator
MH	Skyclimber, personnel basket etc.
MJ	Screw feeder
MK	Winch
ML	Conveyor
MM	Loading/Discharging equipment
MN	Forklift, truck, transporter etc.
MP	Yoke, block, sheave, hook etc.
MQ	Workshop machine
MR	Tool
MS	Pipe handling equipment (drilling only)
MT	Weighting equipment
MU	
MV	Packing equipment
MX	Other material and misc. products handling equipment
MY	Runway beam
MZ	Padeye/Lifting lug

SPECIAL ITEM

NP	Special item
----	--------------

PUMP

PA	Centrifugal pump
PB	Reciprocating pump
PC	Rotary pump
PD	Special metering pump

PE	Gear pump
PF	Diaphragm pump
PG	Screw pump
PM	Mono pump
PX	Other pump

**SAFETY, ESCAPE AND FIRE FIGHTING EQUIPMENT
(lifeboat, raft, extinguisher etc.)**

SA	Lifeboat and raft
SB	Pickup boat
SC	Life saving equipment (cabinet, survival suit, lifebuoy, breathing apparatus, ladder, torche, etc.)
SD	First aid equipment (stretcher, shower, eyebath, etc.)
SE	Fire fighting equipment (cabinet, smoke diving equipment, tool, etc.)
SF	Portable fire extinguisher
SG	Fire/Safety station
SH	CO ₂ equipment
SJ	Fixed foam unit
SK	Dual agent unit
SL	Dry chemical unit
SM	Fire monitor
SP	Fire hose cabinet
SR	Fire hose reel
SS	Sprinkler valve
ST	Fire door
SU	Utility station
SW	Deluge equipment
SX	Other safety, escape and fire fighting equipment

TANK (atmospheric)

TA	Storage tank cylindrical
TB	Storage tank rectangular
TD	Water lock
TE	Drain collector/Drain pot
TF	Mud pit
TG	Sump
TH	Shaft skimmer (GBS)
TP	Water pond
TX	Other atmospheric tank

SUBSEA EQUIPMENT

UA	Wellhead, tieback, PGS equipment
UB	Tubing hanger system
UC	X-mas tree/cap system
UD	Lower safety block (LRP/SWIB)

UE	Running tool (EQDP/URT/TCRT)
UF	Work over riser system
UG	Upper safety block system
UH	Workover control system
UI	Subsea structure/manifold system
UJ	Pigging system
UK	Flow and servicelines
UL	Hydraulic/Electrical control system
UM	Pull-in systems
UN	Connection systems
UO	Control pod system
UP	Control pod running tool system
UQ	Intervention control system
UR	Production control system
US	ROV tools and test equipment
UT	Other intervention tools systems
UU	
UV	
UW	
UX	Other subsea equipment
UY	
UZ	Aux. equipment

VESSELS AND COLUMN

VA	Separator
VB	Accumulator
VC	Gas bottle
VD	Settling tank, knockout drum, flash tank
VE	Column
VG	Scrubber
VH	Deaerator
VJ	Coalescer
VK	Dryer
VL	Receiver and surge vessel, expansion and head tank
VM	Pig launcher and receiver
VN	Storage tank
VS	Slug catcher
VV	Special purpose vessel
VW	Pulsation damper
VX	Other vessel and column
VZ	Storage cell (GBS)

EQUIPMENT PACKAGE/SKID

XX	Equipment package/skid
----	------------------------

INSTRUMENT AND CONTROL FUNCTION CODES

The function code for loop level instruments and control functions comprises 2-4 alphabetic characters according to ISO 3511.

FIRE AND GAS

AB	Gas detector IR, Beam	AS	Gas detector H ₂ S
AX	Gas detector	AR	Gas detector IR, point
AZ	Gas detector duct mounted	AI	Gas detector remote indicator
AT	Gas transmitter		
BU	Flame detector ultra violet	BD	Addressable unit
BX	Flame detector infra-red	BF	Fixed heat detector
BS	Smoke detector, ionization	BM	Manual fire alarm
BO	Smoke detector, optical indicator	BI	Smoke detector remote
BQ	Smoke detector, high sensitivity	BW	Water release switch
BR	Heat detector rate of rise	BE	Manual electrical isolation
BC	Heat detector rate compensated	BL	Electric isolation status light
CA	Extinguisher agent pre-discharge alarm	CN	Extinguisher agent release unit
CD	Extinguisher agent pre-discharge lamp	CO	Extinguisher agent timer
CI	Extinguisher agent status indicator		
DR	Door release units		
ES	Emergency shutdown switch	ER	Manual area reset

TELECOMMUNICATION

AA	Antenna
AW	Antenna tuning unit
AX	Antenna socket
AP	Antenna amplifier
CA	Cable amplifier
CS	Cable splitter
CT	Cable tapper
CO	CAS outlet
DA	Display unit
EC	Equipment cabinet
HH	Acoustic hood
IX	Intercom unit (Ex)
LG	Flashing light, green
LY	Flashing light, yellow

LS	Loudspeaker
MC	Met. sensor, cloud height
MH	Met. sensor, humidity
MP	Met. sensor, pressure
MR	Met. sensor, wave radar
MT	Met. sensor, temperature
MW	Met. sensor, wind
NM	Network socket, multipoint (telephone, data, LAN etc.)
NT	Network socket, telephone
ND	Network socket, data/LAN
NX	Ex telephone
OC	Operator console
OP	Operator/control panel (access unit)
PA	Power amplifier
RU	Radio unit
SP	Service panel
TC	CCTV camera
TJ	Telecom junction box
TR	Tape recorder
TV	TV (video) monitor
TW	Telecom cable
WR	Remote unit

ANNEX C
PIPELINE AND PIPING CODES
(NORMATIVE)

PIPELINE AND PIPING CODES

The type and function code to be incorporated in the tag number for topside piping is "L" and pipelines "Y".

For piping the following specific attributes to the item identification are used:

Line size	:	NNN
Pipe classification	:	AA
Insulation class	:	N

Example:

The piping classification code is interpreted as follows:

First letter - Piping pressure rating code

A	=	150 pounds rating according to ANSI codes
B	=	300 " " " " " "
D	=	600 " " " " " "
E	=	900 " " " " " "
F	=	1500 " " " " " "
G	=	2500 " " " " " "
J	=	5000 " " " " API "
K	=	10000 " " " " " "

Second letter - Material classification code

A	=	Aluminium and aluminium alloys
B	=	Concrete
C	=	Carbon steel
D	=	Duplex stainless steel
F	=	Ferritic and martensitic stainless steel
G	=	Galvanized carbon steel
K	=	Copper and copper alloys
L	=	Lined material (non-metallic lining)
N	=	Nickel and nickel base alloys
P	=	Plastic and reinforces pipes (GRP)
S	=	Austenitic stainless steel
T	=	Titanium
V	=	Alloyed steels - low temperature grades
W	=	Alloyed steels - high temperature grades
X	=	Alloyed steels
Y	=	Structural steel
Z	=	Other materials not specified above

The insulation class code means:

<u>Code</u>	<u>Description</u>	<u>Abbreviations</u>
1	Heat conservation	HC
2	Cold medium conservation	CC
3	Personnel protection	PP
4	Frost proofing	FP
5	Fire proofing (insulation)	FI
6	Acoustic 10 dB	AI
7	Acoustic 20 dB	AI
8	Acoustic 30 dB	AI
9	External condensation protection	EP
	No insulation	NI

ANNEX D
DISCIPLINE AND ADMINISTRATION CODING
(NORMATIVE)

DISCIPLINE AND ADMINISTRATION CODING

The discipline code is used as attribute to the documentation identification and it consists of a one character alphabetic code as follows:

A	Administration
B	Procurement
C	Civil/architect
D	Drilling
E	Electrical
F	Project control/cost/economy
G	Geology
H	HVAC
I	Instrumentation/metering
J	Marine operation
K	Inspection
L	Piping/layout
M	Material technology
N	Structural
O	Operation
P	Process
Q	Quality management
R	Mechanical
S	Safety
T	Telecommunication
U	Subsea
W	Weight control
X	Reservoir
Y	Pipeline
Z	Multidiscipline

ANNEX E
DOCUMENT TYPE CODES
(NORMATIVE)

DOCUMENT TYPE CODES

AA	Accounting
BA	Budget
CA	Analysis, test and calculation
CB	Cause and effect
DS	Data sheets
DA	Data sheets for health, environment and safety
EA	Estimate
FA	Principal decision
FB	Philosophy
FC	Design basis
GA	Authorities document
HA	Standard
KA	Procedures
KB	System function test procedure
KC	Performance test procedure
KD	Work instruction
LA	Indexes
LB	Registers
LC	Main equipment list
LD	Instrument index
LE	Cable list
LF	Legends
LG	List of special tools
MA	Operation and maintenance instruction
MB*	Technical description
MC*	Corrective maintenance
MD*	Operating instruction
ME*	Predictive maintenance
MG*	Equipment handling instruction
MF	Parts and spare parts list
MH	Lubrication schedule
NA	Catalogue
OA	Work package
* Primary delivery MA, separate codes is used only for separate delivery	

PA	Purchase orders
PB	Blanket order/frame agreement
PC	Call off order
PD	Major contract
PE	Minor contract
PF	Work order
PG	Material take off (MTO)
PH	Material release note (MRN)
PI	Material movement ticket (MMT)
PJ	Material receiving report (MRR)
PK	Over, shortage and damage report (OS & D)
QA	Query
RA	Report
RB	Technical report
RC	Non conformance report
RD	Corrective action
SA	Specification
SC	Special technical specification
SD	Project design criterias, philosophies etc.
TA	Schedule
TB	Planning schedule
TC	Work plan
TD	Cable schedule/cable transit schedule
TE	Schedules architect
TF	Pipe support schedules
TG	Spring schedules
VA	Manufacturing record and verifying documentation
VB	Certificate of conformance
VC	Traceability lists
VD	List of certificates, reports, procedures and calculations
VE	Third party verification and certification
VF	Certificates for cranes and lifting equipment
VG	Type approval certificate
WA	Isometric drawing hydrotest
WB	Pipe support drawing
WC	Structural fire protection drawings
WD	Acoustic/thermal insulation and fire protection plan
XA	Drawings, misc.
XB	Flow diagrams
XC	Pipe & instrument diagram (P&ID / D&ID)
XD	General agreement

XE	Layout drawings
XF	Detail crosssectional drawings with parts list
XG	Location drawing
XH	Cable rack and tray layout
XI	Area classification drawing
XJ	Fire area location drawing
XK	Foundation drawing
XL	Pipe connections
XM	Isometric fabrication drawing
XN	Isometric drawing stress test
XO	Isometric design drawing
XQ	System block diagram
XP	Termination drawing for external connections
XS	Single line diagram
XT	Field equipment installation drawings
XU	Logic diagram
XV	Loop diagram
XW	Nodal diagram
XX	Wiring diagram
XY	Hook up drawing
ZA	EDP documentation
ZB	Software documentation
ZC	System documentation
ZD	VDU pictures

ANNEX F
AREA CODES
(NORMATIVE)

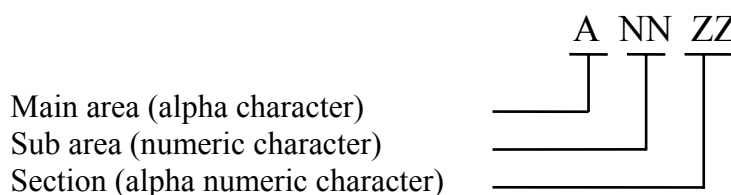
AREA CODING

General

An installation is divided on a geographic/coordinate basis by means of area coding. The area codes are used as attributes to plant items and documentation identification codes.

Format

The area code shall be:



Three characters shall always be used.

Main Area (A)

A single alphabetic character defines a main area type or major division within the plant as follows:

A	Template	M	Modules
B	Bridge	P	Process
C	Load transfer frame (LTF)/ Cellar deck	Q	Utility
D	Drilling	R	Risers/j-tubes/umbilicals
E	Export pipelines	S	Pipelines
F	Flare	T	Topside
G	Gravity base structure (GBS)	U	Subsea
H	Helideck	W	Wellhead
J	Jacket	X	General (all areas)
L	Living quarter	Y	Tender support vessel (TSV)
		Z	General

Sub Area (NN)

A two character numeric code defines sub divisions of the main area. Sub areas will be defined according to the needs of each plant.

Section (A)

Section is a subdivision of sub areas and is defined by a two character number. The first character is used to split the subarea into sections, e.g. 10 = section 1, 20 = section 2. The second character is used to identify rooms within each section or subarea.

Examples

Process area:

P10	Module P10, general
P11	Module P10, level 1
P12	Module P10, level 2 (mezzanine)
P1210	Module P10, level 2 (mezzanine), section 1

Living quarters:

L1124	Module L10, level 1, section/room 24
L2236	Module L20, level 2, section/room 36

Fire Area Coding

Fire areas are coded according to the area coding principles but identified with the letter F after the number.

Examples:

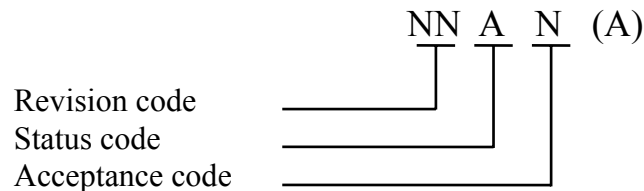
P1210F	Fire Area is Module P10, Level 2 Mezzanine
P1211F	Fire Area is Control Room located within P12
L2236F	Fire Area is Module L26 Room 36

The fire area code may for certain fire areas differ from the room code. This may be the case when one fire area is covering two or more rooms.

ANNEX G
REVISION, STATUS AND ACCEPTANCE CODES
(NORMATIVE)

GENERAL

This section describes the codes to be used for revision, status and acceptance coding as attributes to the document number. The format for these attributes are as follows:



REVISION CODES

Revision codes (NN)

The purpose of the sequential revision number is to give each revision a unique number.

A two digit sequential number starting at 01 shall be given for the documents first issue and shall be increased with one for each revision.

STATUS CODES

The purpose of the status code is to give each issue an application

The reason/description of status has to be described in the document identification header/matrix and in addition identified in the attributes to the document number with a letter as described below:

- A Approved/accepted for application for granting of production licenses
- B Approved/accepted for exploration
- C Approved/accepted for pre-feasibility study
- D Approved/accepted for feasibility study
- E Approved/accepted for main study, basic engineering or design basis
- F Approved/accepted for detail engineering
- G Approved/accepted for inquiry or tender
- H Approved/accepted for order placement/purchase agreement or contract award
- K Approved/accepted for construction

L As built

M Approved (independent of project phases)

N Voided

ACCEPTANCE CODES

An acceptance code shall be assigned to documents submitted for review and acceptance.
The following codes shall be used:

Code 1: Accepted

Code 2A: Interface information as clouded is accepted and frozen

Code 2: Accepted with comments incorporated, revise and resubmit

Code 3: Not accepted, revise and resubmit

(Code 4 according to NS 5820 shall not be used).

The assigned acceptance code shall be shown on the document.

ANNEX H
ORIGINATOR AND RESPONSIBLE PARTY CODES
(NORMATIVE)

GENERAL

Originator, responsible party and transmittal codes are a two or three character alphanumeric code and is used in document coding to identify each contractor, supplier and company.

They are also referenced in engineering registers.

ORIGINATOR CODES

The originator code defines which organization has created the document, by four alpha numeric characters. The originator code does not change, even if the responsibility for a document is transferred.

RESPONSIBLE PARTY CODES

The responsible party defines the organizational unit responsible for the original and updating of the document. This organization will, at first, be the same as the originator but may change during a document's life cycle.

For example will a document created by an engineering contractor have it's responsibility transferred to the fabricator and later to a hook-up/commissioning contractor. After hand-over as as-built documentation, the operation unit will be the responsible party for all documents.